

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,212	04/03/2001	Timothy E. Benson	00032.US1	2707
26813	7590 06/16/26	5/2004 EXAMINER		
· · · · · · · · · · · · · · · · · · ·	RAASCH & GEB	NASHED, N	NASHED, NASHAAT T	
P.O. BOX 581415 MINNEAPOLIS, MN 55458			ART UNIT	PAPER NUMBER
	·		1652	

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/825,212	BENSON, TIMOTHY E.			
Office Action Summary	Examiner	Art Unit			
	Nashaat T. Nashed, Ph. D.	1652			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>03 April 2001</u> .					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) ☐ Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-53 are subject to restriction and/or expressions. 					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	_				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary (Paper No(s)/Mail Da				
Paper No(s)/Mail Date		atent Application (PTO-152)			

Application/Control Number: 09/825,212 Page 2

Art Unit: 1652

Claims 1-53 are pending.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I Claims 1-7 and 47-53, drawn to a molecule or molecular complex comprising at least a portion of *S. aureus* thioredoxin, crystal thereof, and a method making crystal, classified in Class 435, subclass 189.

Group II Claims 8-18, drawn to scalable three-dimensional configuration of point, presumably, a structure defined by the atomic coordinates in Table 1, classified in Class 434, subclasses 365+.

Group III Claims 19 and 20, drawn to a machine-readable data storage medium, classified in Class 360.

Group IV Claim 21, drawn to a method of obtaining structure, classified in Class 702, subclass 22.

Group V Claim 22, drawn to a method of homology modeling, classified in Class 702, subclass 22.

Group VI Claims 23-43, drawn to a computer assisted method of identifying potential inhibitor of *S. aureus* thioredoxin, classified in Class 702, subclass 19.

Group VII Claims 44-46, drawn to an inhibitor *S. aureus* thioredoxin activity, classification is unknown. Since the claims do not identify a specific chemical structure, the invention could not be classified because the classification is based on specific chemical structures.

The inventions are distinct, each from the other because of the following reasons:

The protein molecule or its molecular complexes of Group I, the structure of Group II, the machine of Group III and the methods of Groups IV-VI, and the composition of Group VII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP 806.04, MPEP 808.01). In the instant case, the different inventions are not disclosed as capable of use together and have different function because:

- (a) The invention of Group I is directed to a thiredoxin and crystal thereof. In contrast, the invention of Group II is directed to a model of said thioredoxin, which can be used in the methods of Groups IV-VI.
- (b) The invention of Group III is directed to a machine-readable data storage medium, which is used to construct a three-dimensional model of Group II.
- (c) The methods of Groups IV-VI do not utilize the molecule or molecular complex of Group I.
- (d) The composition of Group I and VII are independent chemical compounds and would require different searches in the patent and non-patent literature.

Application/Control Number: 09/825,212

Art Unit: 1652

The model of Group II, the machine of Group III and the inhibitor of Group VII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP 806.04, MPEP 808.01). In the instant case, the different inventions have different function.

Inventions of Groups II and the methods of Groups IV-VI are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP 806.05(h)). In the instant case, the model of Group II is used in the three different methods of Groups IV-VI.

Inventions of Groups III and the methods of Groups IV-VI are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP '806.05(h)). In the instant case, the machine of Group III is used in the three different methods of Groups IV-VI.

Inventions of Groups IV-VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP 806.04, MPEP 808.01). In the instant case, the different inventions are independent methods having different steps and results.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to

Application/Control Number: 09/825,212

Art Unit: 1652

be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

A telephone call was made to Lorin Albin on June 8, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nashaat T. Nashed, Ph. D. whose telephone number is 571-272-0934. The examiner can normally be reached on MTTF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nashaat T. Nashed, Ph. D.

Primary Examiner Art Unit 1652